

(6 pages)

Reg. No. :

Code No. : 6416

Sub. Code : HBOM 42

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2017.

Fourth Semester

Botany

ENVIRONMENTAL BIOLOGY

(For those who joined in July 2012–2015)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The concept of ecosystem was first put forth by

- (a) H. Reiter (b) A.G. Tansley
(c) E.P. Odum (d) Clarke.

2. Example of transformers is

- (a) Algae (b) Fishes
(c) Bacteria (d) Turtles.

3. The uncultivated flora and the undomesticated fauna among the plants and animals are defined as

- (a) Forest (b) Wild life
(c) Zoo (d) Botanical garden.

4. The percentage of hydrocarbon in the latex of Euphorbiaceae member is

- (a) 10% (b) 20%
(c) 30% (d) 40%

5. The supersonic jets cause pollution by the thinning of

- (a) CO₂ layer (b) SO₂ layer
(c) O₃ layer (d) O₂ layer.

6. 5th June is observed as

- (a) World Forest Day
(b) World Environmental Day
(c) World Wildlife Day
(d) World Population Day.

7. The area that have very rich in species mostly threatened and endemics are known as

- (a) National park (b) Biosphere reserve
(c) Hot spot (d) Botanical garden.

Page 2

Code No. : 6416



8. Habitat loss and fragmentation, over exploitation, alien species invasion and coextinction are the causes for

- (a) Pollution
- (b) Migration
- (c) Biodiversity loss
- (d) Ecological succession.

9. Biodiversity

- (a) increase towards the equator
- (b) decrease towards the equator
- (c) remains same throughout the planet
- (d) has no effect on change in latitude.

10. IUCN is also called as

- (a) Man and Biosphere Programme
- (b) World Conservation Union
- (c) World Conservation Consortium
- (d) World Wide Conservation Union.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Give a concise note on marine ecosystem.

Or

(b) What is trophic structure? Explain.

Page 3

Code No. : 6416

12. (a) Write short notes on environmental resources.

Or

(b) Explain the importance of renewable energy sources.

13. (a) Briefly write note on waste land reclamation.

Or

(b) List out the potential hazards of land pollution.

14. (a) Briefly explain the genetic level of biodiversity.

Or

(b) Pollution affects the biodiversity – Discuss.

15. (a) Differentiate the seed bank and pollen bank.

Or

(b) What is the role of NBPGR organizations in biodiversity management?

Page 4

Code No. : 6416

[P.T.O.]



PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Enumerate the importance of aquatic water ecosystem.

Or

- (b) Write an essay on mangrove ecosystem.

17. (a) Write a detailed account on natural resources.

Or

- (b) Narrate the perspective planning of resource management.

18. (a) Give an account on causes, potential hazards and remedial measures of air pollution.

Or

- (b) Explain the causes and effects of urbanization.

19. (a) List out the methods of determination of species diversity.

Or

- (b) Write an essay on distribution of hotspots in India.

Page 5

Code No. : 6416

20. (a) Give a detailed account on *in situ* conservation.

Or

- (b) Narrate the importance of sacred groves.

Page 6

Code No. : 6416

